DATA SHEET

MAQUET
GETINGE GROUP

VENTILATION
SERVO-i® ADULT

CRITICAL CARE

HIGHLIGHTS

- For adult and pediatric patients
- Intuitive user interface
- Designed for cost-efficiency
- Flexible placement
- Modular – interchangeable plug-in units
- Enables Heliox delivery
- NAVA® - improved synchrony and unique monitoring capabilities
- For invasive as well as non invasive ventilation
- The Open Lung Tool® and Stress Index - tools for lung protection.
- Available in MR and Transport editions for continuity of ventilatory care

SERVO-i VENTILATOR FAMILY
SERVO-i ® ADULT

SERVO-i Configurations

The SERVO-i® Ventilator family consists of four configurations:

	Infant
	Adult
UBE	Universal Basic Edition
UEE	Universal Extended Edition

	Standard Configuration
	Options
	Not applicable

The SERVO-i Ventilator family addresses the very different requirements of neonatal, pediatric and adult needs from a single ventilation platform. All four configurations are the same ventilator, equipped with different functions. They can be customized and upgraded with different options for future needs. (SERVO-i Adult and SERVO-i Infant can also be upgraded to SERVO-i Universal.) The same ventilator can be used at the bedside, during transport* and in the MR-room* facilitating training, operation and maintenance, increasing efficiency and flexibility.

*An agreement with MAQUET must be signed, see conditions in the SERVO-i MR declaration (Order no. 66 71 670) and the Interhospital Transport Declaration (Order no. 66 64 721) respectively.

			UBE	UEE
Stress Index	X			
NIV NAVA®				
NAVA®				
Heliox				
Nasal CPAP		X		
NIV PC				
NIV PS				
Bi-Vent				
Y Sensor Measuring				
CO_2 Analyzer				
Nebulizer				
Alarm output connector				
Open Lung Tool®				
Automode®				
SIMV (PRVC) + PS				
PRVC				
VS				
SIMV (VC) + PS				
VC				
SIMV (PC) + PS				
PC				
PS/CPAP				
All patient category software				

KEY TO ABBREVIATIONS

NAVA	Neurally Adjusted Ventilatory Assist
NIV	Non-invasive ventilation
SIMV	Synchronized Intermittent Mandatory Ventilation
PRVC	Pressure Regulated Volume Control
VS	Volume Support
VC	Volume Control
PS	Pressure Support
PC	Pressure Control
CPAP	Continuous Positive Airway Pressure

TECHNICAL SPECIFICATIONS
SERVO-i ® ADULT

The system – General	
CE 0413	The device complies with requirements of Medical Device Directive 93/42/EEC.
Classification:	Class I equipment. According to IEC/EN 60 601-1.
Standards:	IEC/EN 60 601-1 (Type B). IEC/EN 60 601-2-12. EN 794-1.
Noise level:	<50 dBA, measured at 0.3 m distance.
IP classification	IP 20
Electromagnetic compatibility (EMC):	
■ Emission:	According to IEC/EN 60601-1-2 (Edition 2:2001).
■ Immunity- Extended test to 30 v/m:	According to IEC/EN 60601-1-2.
The '*EMC Declaration, Information to the Responsible Organization*' is available from MAQUET.	
Patient range (all ventilation modes):	Weight 10 – 250 kg.

Operating conditions	
Operating temperature:	+10 to +40ºC
Relative humidity:	15 to 95% non-condensing
Atmospheric pressure:	660 to 1060 hPa
Lowest pressure in breathing system:	–400 cmH_2O

Non-operating conditions	
Impact:	Peak acceleration: 15 g. Pulse duration: 6 ms. Number of impacts: 1000.
Storage temperature:	–25 to +60º C (–13 to 140º F)
Storage Relative Humidity:	< 95%
Storage Atmospheric Pressure:	470 to 1060 hPa

Power supply	
Power supply, automatic range selection:	100 – 120 V AC ±10%, 50 – 60 Hz, or 220 – 240 V AC ±10%, 50 – 60 Hz.
Plug-in battery module:	
■ Battery backup:	Two battery modules are delivered with the ventilator. Up to six battery modules can be included.
■ Battery capacity:	Rechargable, 12 V, 3.5 Ah each.
■ Recharge time:	Approximately 3 h/battery.
■ Battery backup time:	At least 3 h, when using six batteries.
External 12 V DC:	12.0 V – 15.0 V DC, 10 A
Max power consumption:	At 100 – 120 V: 2 A, 190 VA, 140 W. At 220 – 240 V: 1 A, 190 VA, 140 W.

TECHNICAL SPECIFICATIONS
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The ventilator – General	
Dimensions:	(See dimensional drawings page 15)
■ User Interface:	W 355 x D 53 x H 295 mm
■ Patient Unit:	W 300 x D 205 x H 415 mm
Weight:	Approximately 20 kg (Patient Unit 15 kg, User Interface 5 kg)
Method of triggering:	Flow, pressure and Edi (optional)
Max. operating pressure:	Approximately 115 cmH_2O
Bias flow:	2 l/min

Gas supply	
Inlet gas pressure Air/O_2:	200 – 650 kPa / 2.0 – 6.5 bar / 29 – 94 PSI
Connection standards available:	AGA, DISS, NIST, or French standard.
Unavailable gas/loss of gas pressure:	The flow from an unavailable gas (air or O_2) is automatically compensated for so that the patient gets the preset volume and pressure.

Patient system gas connectors	
Conical fittings:	Male 22 mm / female 15 mm. In accordance with ISO 5356-1.
Gas exhaust port:	Male 30 mm cone

User interface	
Weight:	Approximately 5 kg
Attachment:	Can be attached to the mobile cart, a table, rail or pole (15 – 30 mm diameter).

Screen	
Type:	TFT-LCD module
Size:	31 cm (12.1”) diagonal
Viewing area:	246.0 x 184.5 mm

Inspiratory channel	
Pressure drop:	Max. 6 cmH_2O at a flow of 1 l/s
Internal compressible factor:	Max. 0.1 ml/cmH_2O
Gas delivery system:	Microprocessor controlled valve
Inspiratory flow range:	0 to 3.3 l/s

Expiratory channel	
Pressure drop:	Max. 3 cmH_2O at a flow of 1 l/s
Internal compressible factor:	Max. 0.1 ml/cmH_2O
PEEP regulation:	Microprocessor controlled valve
Rise time, expiratory flow measurement:	<12 ms for 10 – 90 % response at flow of 0.05 – 3.2 l/s
Expiratory flow range:	0 to 3.2 l/s

TECHNICAL SPECIFICATIONS
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Alarms	
Airway pressure (upper):	
■ Invasive ventilation:	16 – 120 cmH_2O
■ Non Invasive Ventilation:	16 - 40 cmH_2O
Expired minute volume (Upper alarm limit):	0.5 – 60 l/min
Expired Minute Volume (Lower alarm limit):	0.5 – 40 l/min
No patient effort (Apnea) alarm	15 – 45 s
Automatic return to support mode on patient triggering	
No consistent patient effort:	Yes, described in User's manual
Respiratory frequency:	1 – 160 breaths/min
High end expiratory pressure:	0 – 55 cmH_2O
Low end expiratory pressure:	0 – 47 cmH_2O. Note. Setting the alarm to 0 (zero) is equal to alarm off.
High continuous pressure:	Set PEEP level + 15 cmH_2O exceeded for more than 15 seconds.
O_2 concentration:	Set value ±5 vol% or ≤18 vol%
Gas supply:	Below 200 kPa / 2.0 bar / 29 PSI and above 650 kPa / 6.5 bar / 94 PSI
Battery:	Limited battery capacity: 10 min. No battery capacity: less than 3 min. Low battery voltage.

Alarms	
End-tidal CO_2 (upper and lower limit):	0.5 – 20%. 4 – 100 mm Hg. 0.5 – 14 kPa.
Leakage out of range in NIV:	Yes. Described in the User's manual.
Technical:	Yes. Described in the User's manual.
Autoset (alarm limits) specification:	Invasive ventilation, controlled modes only
■ High airway pressure:	Mean peak pressure +10 cmH_2O or at least 35 cmH_2O.
■ Upper minute volume:	Expiratory minute volume + 50%.
■ Lower minute volume:	Expiratory minute volume – 50%.
■ Upper respiratory frequency:	Breathing frequency + 40%.
■ Lower respiratory frequency:	Breathing frequency – 40%.
■ High end expiratory pressure:	Mean end expiratory pressure + 5 cmH_2O.
■ Low end expiratory pressure:	Mean end expiratory pressure – 3 cmH_2O.
■ Upper end tidal carbon dioxide concentration ($etCO_2$):	End tidal carbon dioxide concentration + 25%.
■ Lower end tidal carbon dioxide concentration ($etCO_2$):	End tidal carbon dioxide concentration – 25%.

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Ventilation Modes – Invasive ventilation	
Controlled ventilation:	
■ PC	Optional
■ VC	Can be configured with alternative flow patterns - VC with flow adaptation, - VC without flow adaptation, - VC with decelerating flow
■ PRVC	Optional
Supported ventilation:	
■ VS	Optional
■ PS/CPAP	
Combined ventilation:	
■ SIMV (VC) + PS:	
■ SIMV (PC) + PS:	Comes with the corresponding controlled ventilation mode. (Optional)
■ SIMV (PRVC) + PS	Comes with the corresponding controlled ventilation mode. (Optional)
■ Bi-Vent	Pressure controlled ventilation on two independently adjustable levels, allowing unrestricted spontaneous breathing on both levels. (Optional)
Automode	Control mode: VC <—> Support mode: VS Control mode: PC <—> Support mode: PS Control mode: PRVC <—> Support mode: VS (Optional)

Ventilation modes – Non-invasive Ventilation (optional)	
NIV PC	
NIV PS	

Ventilation modes - NAVA (optional)	
NAVA	Neurally Adjusted Ventilatory Assist via endotracheal tube or tracheostomy
NIV NAVA	Neurally Adjusted Ventilatory Assist via non-invasive patient interfaces

Waveform and loop presentations	
Real time waveforms - up to 4 waveforms can be displayed simultaneously:	
■ Pressure	
■ Flow	
■ Volume	
■ CO_2	Requires SERVO-i CO_2 Analyzer option
■ Edi	Requires SERVO-i NAVA option
Loops:	
■ Volume / Pressure*	*A reference loop and three overlaying loops can be displayed.
■ Flow / Volume*	*Displayed simultaneously with Open Lung Tool graphical trends, if requested.

TECHNICAL SPECIFICATIONS
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Monitoring	Displayed value	Trended value*
Breathing frequency:	Yes	Yes
Spontaneous breaths per minute (RRsp):	No	Yes
Peak Airway Pressure:	Yes	Yes
Mean Airway Pressure:	Yes	Yes
Pause Airway Pressure:	Yes	Yes
End Expiratory Pressure:	Yes	Yes
CPAP Pressure:	Yes	Yes
Inspired Tidal Volume:	Yes	Yes
Expired Tidal Volume:	Yes	Yes
Inspired Minute Volume:	Yes	Yes
Expired Minute Volume:	Yes	Yes
Leakage fraction in NIV (%):	Yes	Yes
Ti/Ttot:	Yes	No
I:E ratio:	Yes	No
Total PEEP:	Yes	No
Edi peak:	Yes	Yes
Edi min:	Yes	Yes
O2 Concentration (measured):	Yes	Yes
CO_2 End tidal concentration ($etCO_2$):	Yes	Yes
CO_2 Minute elimination (CO_2):	Yes	Yes
Tidal CO_2 elimination ($VTCO_2$):	Yes	Yes
MV_e sp / MV_e:	Yes	No
Spontaneous Exp. Minute Volume (MV_e sp):	Yes	Yes
**Stored trend values for up to 24 hours*		

Monitoring	Displayed value	Trended value*
End Expiratory Flow:	Yes	Yes
Static Compliance:	Yes	Yes
Dynamic Compliance:	Yes	Yes
Stress Index	Yes	Yes
Inspiratory Resistance	Yes	Yes
Expiratory Resistance	Yes	Yes
Elastance	Yes	Yes
Time Constant	Yes	No
P0.1:	Yes	Yes
Work of Breathing patient:	Yes	Yes
Work of Breathing ventilator	Yes	Yes
Shallow Breathing Index (SBI)	Yes	Yes
Supply pressure (O_2 and air):	Yes	No
Battery remaining time:	Yes	No
Barometric pressure:	Yes	No

Log function	
Event log:	Alarms. Ventilator settings. Apnea periods. Immediate functions.
Service log:	Technical alarms. Test results. Preventive maintenance. Service history. Configuration log.

TECHNICAL SPECIFICATIONS
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Parameter settings: Parameter:	Setting range:
Inspiratory tidal volume (ml):	100 – 2000
Inspiratory minute volume (l/min):	0.5 – 60
Apnea, time to alarm (s):	15 – 45
Automode Trigger timeout (s):	7 – 12
PC/PS above PEEP (cmH_2O)	0 – (120 - PEEP)
PC/PS above PEEP in NIV (cmH_2O)	0 – (32 - PEEP)
PEEP (cmH_2O)	0 – 50
PEEP in NIV (cmH_2O)	2 – 20
CPAP pressure (cmH_2O):	–
CMV frequency (breaths/min):	4 – 100
SIMV frequency (breaths/min):	1 – 60
Breath cycle time, SIMV (s):	1 – 15
P_{High} (cmH_2O)	(PEEP +1) – 50
T_{High} (s):	0.2 – 10
T_{PEEP} (s):	0.2 – 10
PS above P_{High} (cmH_2O):	0 – (120 - P_{High})
O_2 concentration (%):	21 – 100
I:E ratio:	1:10 – 4:1

Parameter settings: Parameter:	Setting range:
T_{Insp} (s):	0.1 – 5
NAVA level ($cmH_2O/\mu V$):	0 - 15
Edi trigger sensitivity (µV):	0.1 – 2.0
T_{Pause} (s):	0 – 1.5
T_{Pause} (% of breath cycle time):	0 – 30
Flow trigger sensitivity level (fraction of bias flow):	0 – 100%
Press. trigg sensitivity (cmH_2O)	-20 – 0
Insp. rise time (% of breath cycle time):	0 – 20
Insp. rise time (s):	0 – 0.4
Insp. cycle off (% of peak flow):	1 – 70
Insp. cycle off in NIV (% of peak flow):	10 – 70
Nebulizer time (min):	5 – 30

Backup settings Parameter:	Setting range:
Inspiratory tidal volume (ml):	100 - 2000
PC above PEEP (cmH_2O)	5 – (120 - PEEP)
PC above PEEP in NIV	5 – (32 - PEEP)
CMV frequency (breaths/min):	4 – 100
I:E ratio:	1:10 – 4:1
T_{Insp} (s):	0.1 – 5

TECHNICAL SPECIFICATIONS
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Parameter:	Setting range
Oxygen breaths:	100% for 1 minute
Start breath:	Initiation of 1 breath (In SIMV mode initiation of 1 mandatory breath)
Pause hold:	Insp. or exp (0 – 30 seconds)
Alarm silence/reset:	2 minute silence and reset of latched alarms
Compliance compensation:	On/Off
Automode (optional with Universal Basic Edition):	Automode On/Off
Nebulizer (optional)	5 - 30 min./Continuous/Off
Backup ventilation	Backup On/Off

Suction Support	
Pre oxygenation time:	Max. 2 min
Post oxygenation time:	Max. 1 min
Suction phase time:	No maximum level
Adjustable oxygen level:	21 – 100 %

Saving of data	
Recording of current waveform and parameter values:	20 seconds of data will be recorded (10 seconds before and 10 seconds after activation).

Communication/Interface	
Serial port:	RS-232C - isolated. For data communication via the Communication Interface Emulator (CIE).
Second serial port (optional)	See information above.
Alarm output connector (optional)	
Connector:	4-pole Modular connector
Ratings:	Max 40 V DC, Max 500 mA, Max 20 W
Network connection (optional):	MIB (Medical Information Bus) monitor connection
Data transfer (optional)	Via Ventilation Record Card
Screen picture transfer (optional)	Via Ventilation Record Card

Non-invasive Ventilation (optional)	
Max. leakage compensation level:	
■ Adult	65 l/min
Leakage overrange detection:	Automatic
Disconnect detection:	Automatic
Disconnect flow:	Configurable
■ Low:	7.5 l/min
■ High:	40 l/min
■ Disabled	Deactivates disconnect detection
Connect detection:	Manual, or automatic via bias flow

TECHNICAL SPECIFICATIONS
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Open Lung Tool (OLT) (optional with Universal Basic Edition)	
Three simultaneous graphical trends, presented breath-by-breath:	1. EIP and PEEP (End Inspiratory Pressure and Positive End Expiratory pressure). 2. VT_i and VT_e (Inspiratory and Expiratory Tidal volume). 3. C dyn i and $VTCO_2$* (Dynamic inspiratory Compliance [= VTi/(EIP – PEEP)] and Tidal CO_2 elimination*). * Requires SERVO-i CO_2 Analyzer option.
Values stored breath by breath:	Up to 21.600 breaths.
Cursor function:	A cursor can be moved with the main rotary dial or via the touch screen. When moving it along the graph, the numeric parameter values valid for that actual moment will be shown.
Zoom function:	Time resolution of the x-axis can be selected in five different steps.
Time marking:	Hours and minutes (when values are measured).

Stress Index (optional)	
Presented values:	■ SI (Stress Index) ■ PEEP (Positive End Expiratory pressure). ■ VT_e (Expiratory Tidal volume).
Stored values:	■ 120 values stored in graph ■ Stored trend values up to 24 hours
Cursor function:	A cursor can be moved with the main rotary dial. When moving it along the graph, the numeric parameter values valid for that actual moment will be shown.
Time marking:	Hours and minutes (when values are measured).

NAVA (optional)	
Standards:	IEC/EN 60601-1 (Type CF, defibrillator proof)
Size: ■ Edi module: ■ Edi catheter cable:	 154 x 90 x 21 mm Length: 2 m
Weight - Edi module:	0.25 kg
Power source - Edi module supply voltage:	Powered from SERVO-i. <3 W at 12 V (normal operation)
Parameters:	Edi waveform Edi leads waveforms NAVA estimated pressure waveform (Pest)
Edi catheters:	6 Fr, length 49 cm 6 Fr, length 50 cm 8 Fr, length 100 cm 8 Fr, length 125 cm 12 Fr, length 125 cm 16 Fr, length 125 cm

TECHNICAL SPECIFICATIONS
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SERVO-i CO_2 Analyzer (optional)	
Standard:	EN 864, ISO 9918. IEC/EN 60601-1 (Type BF, defibrillator proof)
Size:	
■ CO_2 Analyzer Module:	154 x 90 x 43 mm
■ Sensor:	32.0 x 42.4 x 21.6 mm
Weight:	
■ CO_2 Analyzer Module:	0.45 kg
■ Sensor:	18 g
■ Airway adapter:	10 g
Connectors and cables:	
■ CO_2 Analyzer Module:	15-pole D-sub female connector.
■ Sensor:	20-pole, 2.4 m cable.
Power source:	
■ CO_2 Analyzer Module supply voltage:	Powered from the SERVO-i.
■ Power consumption:	≤ 8 W at 12 V, during warm up. ≤ 6.5 W at 12 V, during normal operation.
■ Sensor:	Powered from the CO_2 Analyzer Module.

SERVO-i CO_2 Analyzer – Performance	
Measuring method:	Mainstream, dual-wavelength, non-dispersive infrared.
Parameters:	Capnogram. CO_2 End tidal concentration ($etCO_2$). CO_2 Minute elimination ($\dot{V}CO_2$). Tidal CO_2 elimination ($VTCO_2$).
Measuring range:	0 to 100 mm Hg CO_2 partial pressure. 0 to 13.3 kPa CO_2 partial pressure. 0 to 13.2% CO_2 volume (at a barometric pressure of 1013 hPa).
Step response time:	<25 ms (10 to 90% step response).
Warm-up time:	30 s to initial CO_2 indication, max. 5 min to full specification.
Oxygen concentration compensation:	Automatic. Values supplied from the SERVO-i Ventilator System.
Barometric pressure compensation:	Automatic. Values supplied from the SERVO-i Ventilator System.
Digitizing rate:	87 Hz
Airway adapter dead space:	<5 ml

TECHNICAL SPECIFICATIONS
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Y Sensor measuring (optional)	
Size:	
■ Y Sensor Module:	154 x 90 x 43 mm
■ Y sensor adult:	Length 84 mm
Weight:	
■ Y Sensor Module:	0.4 kg
■ Y sensor adult:	10.5 g
Sensor material:	Makrolon polycarbonate.
Tubing:	2.0 m. Medical grade PVC.
Power source – Y Sensor Module supply voltage:	Powered from the SERVO-i. <5 W at 12 V (normal operation).

Y Sensor measuring – Performance	
Measuring method:	Fixed orifice, differential pressure.
Parameters:	Airway pressure. Airway flow. Inspiratory and expiratory volumes.
Measuring range:	2 to 180 l/min
Airway adapter dead space:	< 9.0 ml

Servo Ultra Nebulizer (optional)	
Weight:	Approx. 125 g
Dimensions:	H 105 mm x L 108 mm x W 60 mm
Connection cable length:	2.0 m
Nebulizer T-piece connections:	Inlet/outlet: 22/15 mm outer/inner diameter and 22 mm inner diameter, ISO standard. Pediatric patient tubes: Adapters 22/10 mm outer diameter and 15/10 mm outer diameter.
Internal volume:	60 ml
Ultrasonic generator frequency:	2.4 MHz
Particle size (water):	Mass Median Diameter (MMD) = approximately 4.0 µm, measured distally in endotracheal tube 8 mm inner diameter.
Output from nebulizer (water) – minimum water flux:	Min. 0.1 ml water/min at 0.1 l gas flow/s. Min. 0.3 ml water/min at 0.5 l gas flow/s. Min. 0.5 ml water/min at 1.0 l gas flow/s.
Buffer liquid:	Sterile water
Max. medication temperature:	55° C (131° F)
Volume, medication cup:	Max. 10 ml
Noise level:	Max. 50 dBA, measured at 0.3 m distance.

Aeroneb Nebulizer Systems (optional)	
Weight - Aeroneb module:	Approx. 216 g
Dimensions - Aeroneb module:	H 105 mm x L 108 mm x W 60 mm
Connection cable length:	2.0 m
Particle size (water):	1 - 5 mass median aerodynamic diameter (MMAD)
Flow rate:	>2 ml/min
Volume - nebulizer unit	■ Pro - 10 ml ■ Solo - 6 ml
Residual volume:	10 %

TECHNICAL SPECIFICATIONS
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SERVO-i Mobile Cart (optional)	
Weight:	20 kg
Dimensions:	H 1015 mm x L 640 mm x W 560 mm (see dimensional drawing below)

SERVO-i Drawer kit (optional)	
Weight:	4.5 kg
Dimensions:	H 240 mm x L 210 mm x W 300 mm

SERVO-i Holder (optional)	
Weight:	3.5 kg
Dimensions:	H 352 mm x L 247 mm x W 159 mm (see dimensional drawing below)

SERVO-i Shelf Base (optional)	
Weight:	1.2 kg
Dimensions:	H 29 mm x L 205 mm x W 159 mm (see dimensional drawing below)

Gas cylinder restrainer (optional)	
Max load:	2 x 5-liter bottles

SERVO-i IV Pole (optional)	
Max load (total):	6 kg

Gas trolley (optional)	
Max load:	2x10 kg bottles
Docking:	Dockable to SERVO-i Mobile Cart. Dockable to a separate wall clamp.

Compressor Mini (optional)
See separate data sheet.

Service	
Regular maintenance:	Once every 12 months or at least after 5000 operating hours.

Note
For inaccuracies and more detailed technical specifications please refer to the User's manual.

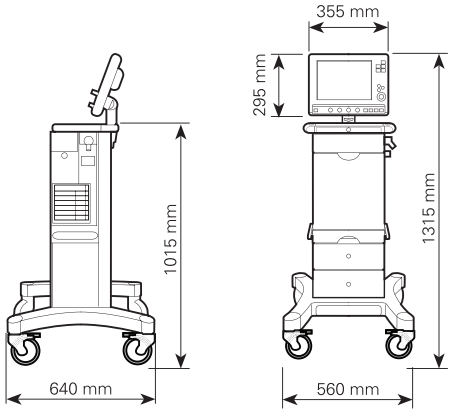
ORDERING INFORMATION

SERVO-i, Ventilator and accessories: See separate information: "SERVO-i, Version 6.1 — System Flow Chart" (Order no: 66 70 102).

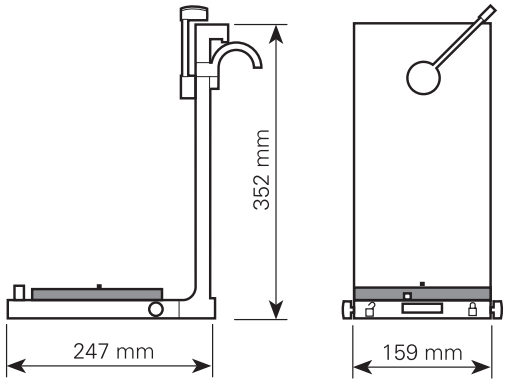
TECHNICAL SPECIFICATIONS
SERVO-i ® ADULT

Dimensional drawings

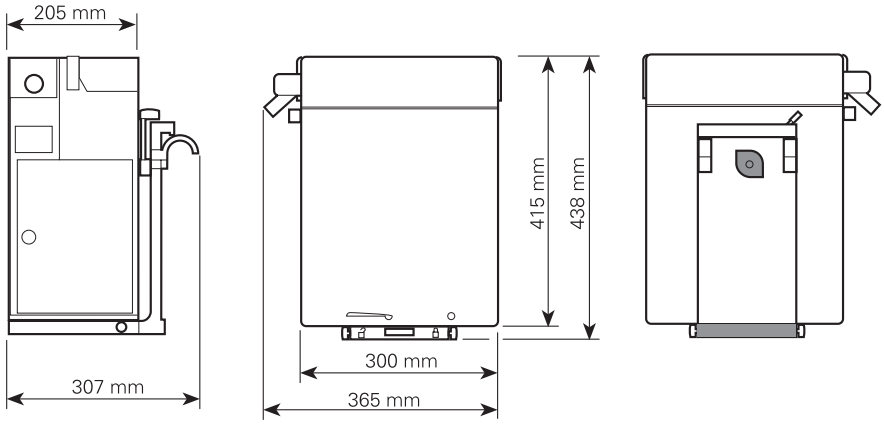
SERVO-i on Mobile Cart



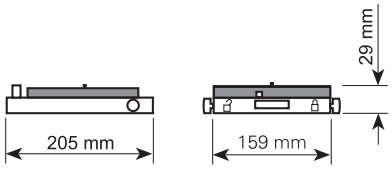
SERVO-i Holder



SERVO-i (patient unit) on SERVO-i Holder



SERVO-i Shelf Base



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